

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Guoliang Wu

Title: TRANSMISSION SLOT ALLOCATION METHOD AND MAP FOR  
VIRTUAL TUNNELS IN A TRANSMISSION LINE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form, and previously cited in U.S. Application Serial No. 09/325,497, filed June 3, 1999 by Applicant and entitled "TRANSMISSION SLOT ALLOCATION METHOD AND MAP FOR VIRTUAL TUNNELS IN A TRANSMISSION LINE," be considered and cited in the examination of the above-identified continuation patent application. Pursuant to 37 C.F.R. § 1.98(d), copies of these references are not being furnished. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that these references qualify as prior art or that these references are material to the patentability of the present application.

Pursuant to 37 C.F.R. § 1.97(b), no fee is believed due. If, however, Applicant has overlooked the need for a fee, the Commissioner is hereby authorized to charge any underpayment to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.

Attorneys for Applicant

Terry J. Stalford  
Registration No. 39,522

Dated: December 1, 2003

Customer Number: **05073**

<b>Information Disclosure Citation in an Application</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	<b>Docket Number</b> 064731.0392	<b>Group Art Unit</b>	<b>Filing Date</b> December 1, 2003

**U.S. PATENT DOCUMENTS**

		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	<b>A</b>	4,339,633	07/13/82	Ahmed	179	99 M	10/06/80
	<b>B</b>	4,631,641	12/23/86	Brombal et al.	361	424	07/18/85
	<b>C</b>	4,893,306	01/09/90	Chao, et al.	370	94.2	11/10/87
	<b>D</b>	5,012,469	04/30/91	Sardana	370	335	07/29/88
	<b>E</b>	5,130,984	07/14/92	Cisneros	370	94.1	12/18/90
	<b>F</b>	5,278,833	01/11/94	Crisler et al.	370	335	03/28/91
	<b>G</b>	5,295,140	03/15/94	Crisler et al.	370	335	03/28/91
	<b>H</b>	5,303,234	04/12/94	Kou	370	335	07/15/92
	<b>I</b>	5,412,652	05/02/95	Lu	370	85.12	09/24/93
	<b>J</b>	5,467,348	11/14/95	Fujii et al.	370	60.1	01/06/94
	<b>K</b>	5,515,376	05/07/96	Murthy et al.	370	85.13	07/19/93
	<b>L</b>	5,537,403	07/16/96	Cloonan et al.	370	60.1	12/30/94
	<b>M</b>	5,689,506	11/18/97	Chiussi et al.	370	388	01/16/96
	<b>N</b>	5,796,720	08/18/98	Yoshida et al.	370	245	02/06/96
	<b>O</b>	5,805,568	09/08/98	Shinbashi	370	223	04/03/96
	<b>P</b>	5,838,924	11/17/98	Anderson et al.	395	200.69	08/06/96
	<b>Q</b>	5,841,771	11/24/98	Irwin et al.	370	360	07/03/96
	<b>R</b>	5,920,412	07/06/99	Chang	359	128	04/24/96

**FOREIGN PATENT DOCUMENTS**

		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>	
							<b>YES</b>	<b>NO</b>
	<b>S</b>	EP 0 700 186 A1	03/06/96	EPO	H04L 12/56	H04Q 11/04	X	
	<b>T</b>	WO 99/09689	02/25/99	PCT	H04J 3/16		X	
	<b>U</b>	EP 0 818 940 A2	01/14/98	EPO	H04Q 11/04	H04L 12/437	X	

**NON-PATENT DOCUMENTS**

		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>	<b>DATE</b>
	<b>V</b>	"General Aspects of Digital Transmission Systems," XP-002083788, ITU-T Recommendation G.708, <i>ITU-T Telecommunication Standardization Section of ITU</i> , March, 1993, 19 pages.	March, 1993
	<b>W</b>	Wu, et al., "A Broadband Virtual Path SONET/ATM Self-Healing Ring Architecture and Its Economic Feasibility Study," <i>IEEE Global Telecommunications Conference</i> , December 6-9, 1992, 8 pages.	12/6-9/92

**EXAMINER****DATE CONSIDERED**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. Patent and Trademark Office

PTO-1449 <b>Information Disclosure Citation in an Application</b>		Application No.  Guoliang Wu		
		Docket Number 064731.0392	Group Art Unit	Filing Date December 1, 2003

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,677,905	10/14/97	Bigham, et al.	370	94.2	03/28/95
	B	5,867,502	02/02/99	Chang	370	477	02/15/96
	C	5,982,776	11/09/99	Manning et al.	370	414	04/29/97
	D	5,771,234	06/23/98	Wu et al.	370	396	12/06/95
	E	6,067,301	05/23/00	Aatresh	370	418	05/29/98
	F	5,712,851	01/27/98	Nguyen et al.	370	399	12/28/95
	G	6,144,669	11/07/00	Williams et al.	370	401	12/12/97

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	H	EP 0 509 648 A1	10/21/92	EPO	H04L 12/56	H04L 12/18	X	
	I	EP 0 868 058 A1	09/30/98	EPO	H04L12/56	H04Q11/04	X	
	J	EP 0 901 307 A2	03/10/99	EPO	H04Q11/04	H04L12/56	X	
	K	EP 0 817 439 A2	01/07/98	EPO	H04L 12/56		X	

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
L	Tsong-Ho Wu, "Cost-Effective Network Evolution, A three-phase path from todays SONET/STM ring transport to a SONET/ATM VP ring transport could facilitate the network evolution for broadband service," <i>IEEE Communications Magazine</i> , September 1993, 10 pages.	09/1993
M	M.Huterer, "ATM on SDH," <i>Alcatel Telecommunications Review</i> , 1st Quarter, 1997, 9 pages.	1997
N	Tai H. Noh, "ATM Scenarios for SDH/SONET Networks, XP-000750438, <i>Bell Labs Technical Journal</i> , January-March 1998, 13 pages.	01-03/1998
O	International Search Report in International Application No. PCT/US 00/15426, dated September 21, 2000, 7 pages.	09/21/2000
P	International Search Report in International Application No. PCT/US00/15425, dated September 7, 2000, 6 pages.	09/07/2000
Q	Kurimoto, et al., "An Expandable Multicast ATM Switch Based on Copy Trunk with New Delay Control and Cell Spacing Functions, XP 000628644, "IEICE Trans. Commun., Vol. E79B, No. 8, August, 1996, 7 pages.	August, 1996
R	Subramaniam, et al., "Multicasting in ATM networks using MINs", <i>Computer Communications</i> 19, 1996, 11 pages.	1996
S	K. Sriram, "Methodologies for bandwidth allocation, transmission scheduling, and congestion avoidance in broadband ATM networks," <i>Computer Networks and ISDN Systems</i> , Vol 26, No. 1, September, 1993, 17 pages.	09/1993

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PTO-1449 <b>Information Disclosure Citation in an Application</b>			Application No. <b>Guoliang Wu</b>	Applicant(s) <b>Guoliang Wu</b>			
			Docket Number <b>064731.0392</b>	Group Art Unit	Filing Date <b>December 1, 2003</b>		
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	<b>A</b>						
	<b>B</b>						
	<b>C</b>						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	<b>D</b>	EP 0 680 235 A1	11/02/95	EPO	H04Q 11/04	H04L 12/56	X
	<b>E</b>						
	<b>F</b>						
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	<b>G</b>	Fabrice Guillemin, et al., "Some Traffic Aspects in Virtual Private Networks over ATM," XP-000702583, Source Unknown, April, 1996, 12 pages.					04/1996
	<b>H</b>	Noriharu Miyaho, et al., "Integrated Switching Architecture and Its Traffic Handling Capacity in Data Communication Networks," XP 000692355, <i>IEEE Trans Commun.</i> , Vol. E79-B, No. 12, December, 1996, 13 pages.					12/1996
	<b>I</b>	McDysan, David E., et al., " <i>ATM Theory and Application</i> . McGraw-Hill, Inc. ISBN 0-07-060362-6, pp. 365-385.					1994
	<b>J</b>	Erdengiz, Ali, "ATM Usage Policing and Traffic Shaping," Communications System Design (January 1997).					January, 1997
	<b>K</b>	Dobrowski, George et al., <i>ATM User-Network Interface Specification, Version 3.1</i> , The ATM Forum.					September, 1994
	<b>L</b>	"Cerent 454™ High Speed SONET/SDH Transport System,					ALTS trade show, Las Vegas, Nevada on or about December, 1998
	<b>M</b>	"FLM 150 ADM LAN Extension Product Design Specification," Revision 1.1, Internal Design Specification for Product, sheets 6/353-10/353 and 72/353-75/353.					Product publicly released on or about December, 1998
<b>EXAMINER</b>			<b>DATE CONSIDERED</b>				
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			<b>Docket Number</b> <b>064731.0392</b>	<b>Group Art Unit</b>	<b>Filing Date</b> <b>December 1, 2003</b>		
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	D						YES
	E						NO
	F						
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	G	"Product Design Specification (PDS) for FLASH-192, Release 1," Internal Design Specification for Product, pp. 1/916; 4-12/916I 315-320/916.					Product publicly released on or about March, 1999
	H	"InterNetworking Systems; AnyMedia® Access Products; AnyMedia Access System," <a href="http://www.lucent.com/ins/products/anymedia.html">http://www.lucent.com/ins/products/anymedia.html</a> .					Printed August 10, 2000
	I	"AnyMedia® Access System," Lucent Technologies, Inc. Marketing Communications.					September, 1999
	J	"The AnyMedia™ Access System Anything's Possible," Lucent Technologies, Inc. Marketing Communications.					1997
	K	Photography of Northern Telecom Card, card dated April, 1998.					1998
	L	Held, G., <i>Understanding Data Communications</i> , Fifth Edition, Sams Publishing. ISBN No. 0-672-30934-3, Chapter 14, pp. 419-431.					1996
	M	McCloghrie, K., et al., "Management Information Base for Network Management of TCP/IP-based internets: MIB-II," SNMP Working Group.					March, 1991
	N	"Draft New Recommendation 1.630 (ATM Protection Switching)," ITU Telecommunication Standardization Sector, COM 13-41-E.					September, 1998
	O	"Guérin, R., et al., "Equivalent Capacity and its Application to Bandwidth Allocation in High-Speed Networks," IEEE Journal on Selected Areas in Communications, Vol. 9, No. 7, pp. 968-981.					September, 1991
	P	Gün, L., et al., "Bandwidth Management and Congestion Control Framework of the Broadband Network Architecture," Computer Networks and ISDN Systems 26, Elsevier Science Publishers B.V., North-Holland, pp. 61-78.					1993
	R	"S/DMS TransportNode 'OC-3 Express'—Cost-Effective SONET Transport for Low-Capacity Applications", Northern Telecom Marketing Publications, Issue 1, pp. 1-31.					September 27, 1996
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		064731.0392	<b>Guoliang Wu</b>	

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	D							
	E							
	F							

**NON-PATENT DOCUMENTS**

	<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>	<b>DATE</b>
G	"Universal Serial Bus Specification Revision 1.1, Compaq Computer Corporation, Intel Corporation, Microsoft Corporation, NEC Corporation."	September 23, 1998
H	"MMC Products," <a href="http://www.mc-net.com/top-products/productdescriptions.html">http://www.mc-net.com/top-products/productdescriptions.html</a> ,	Printed July 22, 1999
I	"MMC Network's Products: AnyFlow 5400," <a href="http://www.mmcnet.com/Solutions/anyflow5400.asp">http://www.mmcnet.com/Solutions/anyflow5400.asp</a> .	Printed February 7, 2000
J	"MMC Network's Products: AnyFlow 5500," <a href="http://www.mmcnet.com/Solutions/anyflow5500.asp">http://www.mmcnet.com/Solutions/anyflow5500.asp</a> .	Printed February 7, 2000
K	"AnyFlow 5400 Product Overview," MMC Networks.	Undated
L	"AnyFlow 5500 Product Overview," MMC Networks.	Undated
M	"SwitchStAR™ ATM Cell Based 8 X 8 Non-Blocking Single Chip Switching Memory, Preliminary IDT77V400, Commercial Temperature Range, Integrated Device Technology, Inc., pp. 1-23."	May, 1998
N	"SwitchStAR™ ATM Cell Based 8 X 8 Non-Blocking Single Chip Switch Controller, Preliminary IDT77V500, Commercial Temperature Range, Integrated Device Technology, Inc., pp. 1-14."	May, 1998
O	Giroux, Natalie et al., <i>Traffic Management Specification, Version 4.0</i> , af-tm-0056.000, The ATM Forum	April, 1996
P	<i>M4 Interface Requirements and Logical MIB</i> , af-nm-0020.000, The ATM Forum.	October, 1994

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